

-1 ELECTRICAL INSTALLATION SHOWN

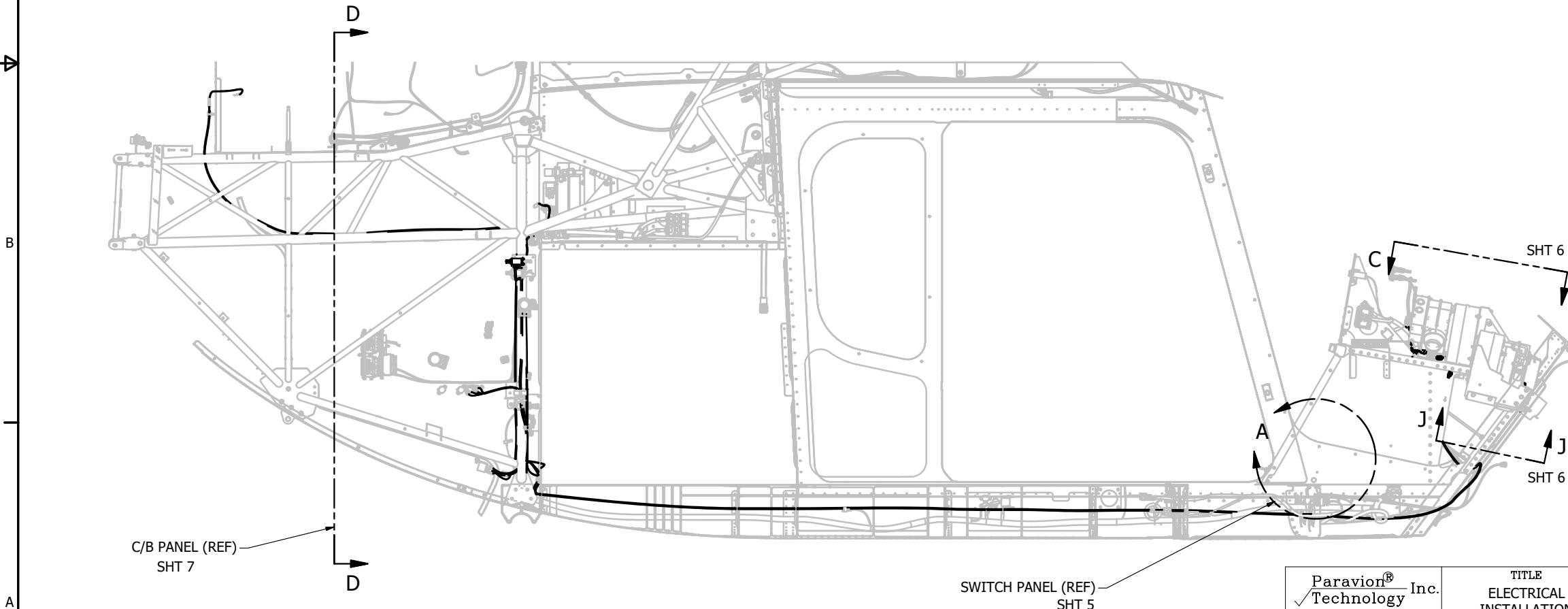
NOTES:

1. ALL WIRES TO BE BUNDLED WITH EXISTING WIRE BUNDLES.
2. ALL CRIMPED ENDS SHOULD CONFORM TO BHT-ELEC-SPM CHAPTER 5-3.
3. ALL WIRES TO BE RESTRAINED IN ACCORDANCE WITH BHT-SLEC-SPM CHAPTER 6 AND AC 43.13 CHAPTER 11.
4. FOLLOW SURFACE PREPARATION AND FINISHING PROCEDURES IN BHT-ELEC-SPM CHAPTER 8 FOR ALUMINUM SURFACES. ALL ELECTRICAL BONDING AND GROUNDING TO BE DONE IN ACCORDANCE WITH BHT-ELEC-SPM CHAPTER 8-26, TABLE 2 CLASS S, 1000 MILLIOHMS OR LESS.
5. VERIFY ELECTRICAL BOND OF 2.5 MILLIOHMS OR LESS PER AC43.13-1B, CHAPTER 11, SECTION 15.
6. INSTALL LABEL IN ACCORDANCE WITH BHT-ALL-SPM, CHAPTER 8 §8-24.
7. AIR CONDITIONING CIRCUIT BREAKERS TO BE INSTALLED DIRECTLY TO THE BUS BAR WITHOUT A JUMPER WIRE.
8. INSTALL TERMINALS IN ACCORDANCE WITH BHT-ELEC-SPM, CHAPTER 4.
9. PREPARE FAYING SURFACES FOR ELECTRICAL BOND IN ACCORDANCE WITH BHT-ELEC-SPM, CHAPTER 8 §8-5 TO 8-7.
10. IDENTIFY EACH CONNECTOR WITH APPROPRIATE REFERENCE DESCRIPTION.
11. UNLESS OTHERWISE NOTED, ALL WIRE TO BE PER AS22759/41 OR AS22759 WIRE WITH HIGHER TEMPERATURE RATING.
12. SEAL ELECTRICAL BOND IN ACCORDANCE WITH CHAPTER 8 OF BHT-ELEC-SPM USING MIL-PRF-81733, TYPE II, CLASS 1 SEALANT. SEALANT TO BE PROVIDED BY INSTALLING FACTORY.
13. PROVIDE DRIP LOOP IN CABLE IN ACCORDANCE WITH BHT-ELEC-SPM, CHAPTER 6, FIGURE 6-11.
14. INSTALL THREADED FASTENERS AND MAINTAIN REQUIREMENTS FOR GRIP LENGTH PER BHT-ALL-SPM, CHAPTER 2, §2-6 THRU 2-8.
15. APPLY TWO WRAPS OF TAPE A-A-59163 AROUND TUBE BEFORE SECURING TIE STRAP OR CLAMP.
16. COVER ALL TERMINALS WITH ITEM 61.
17. APPLY LACING CORD PER BHT-ELECT-SPM CHAP 6, §6-22 THRU 6-29 AS APPLICABLE.
18. IT IS ACCEPTABLE TO USE WIRE PER DLA LAND AND MARITIME DRAWING NO. 04041 IN EQUIVALENT GUAGE, TO REPLACE MIL-W-22759/41 WIRE. EXAMPLE: MIL-W-22759/41-XX-9 IS REPLACED BY 04041-XX-9.
19. REBUNDLE WIRES AS NECESSARY WITH PROVIDED HEAT SHRINK IDENTIFICATION TUBES.
20. REMOVE 4X MS27488-22-1 SEALING PLUGS BEFORE INSTALLING WIRES.

REVISION HISTORY					
REV	DATE	DESCRIPTION	AUTHOR	CHECKED BY	APPROVED
A	5/22/19	INITIAL RELEASE	ZA	LS	ZA
B	7/29/19	SHT 1: ADDED FLAG NOTE 22; SHT 4: REMOVED SECTION B-B; SHT 6: MOVED ONE CLAMP LOCATION, ADDED DETAIL K; SHT 7: ADDED SECTION L-L; ADDED ITEMS 70-74 TO BOM	ZA	LS	ZA
C	1/15/20	BOM ITEM 1 ADDED P/N CTL-12-513 AS ALT	ZA	LS	ZA

21. SEE 505AC-601 DRAWING FOR CONTINUITY

22. BOND IN PLACE USING, 299-947-125 TYP 1 (EA9309NA) PER BHT-ALL-SPM.



Paravion® Inc.		TITLE			DRAWING NUMBER	
Technology		ELECTRICAL INSTALLATION			505AC-603	
DIMENSIONS IN INCHES		TOLERANCES EXCEPT WHERE NOTED:				
DRAWN BY	CHK'D BY	APRVD. BY	DATE	REV	ECO	
ZA			7/30/18	C		
THREADS: INTERNAL: CLASS 2B EXTERNAL: CLASS 2A		3RD ANGLE PROJECTION	DO NOT SCALE DRAWING	SHEET		
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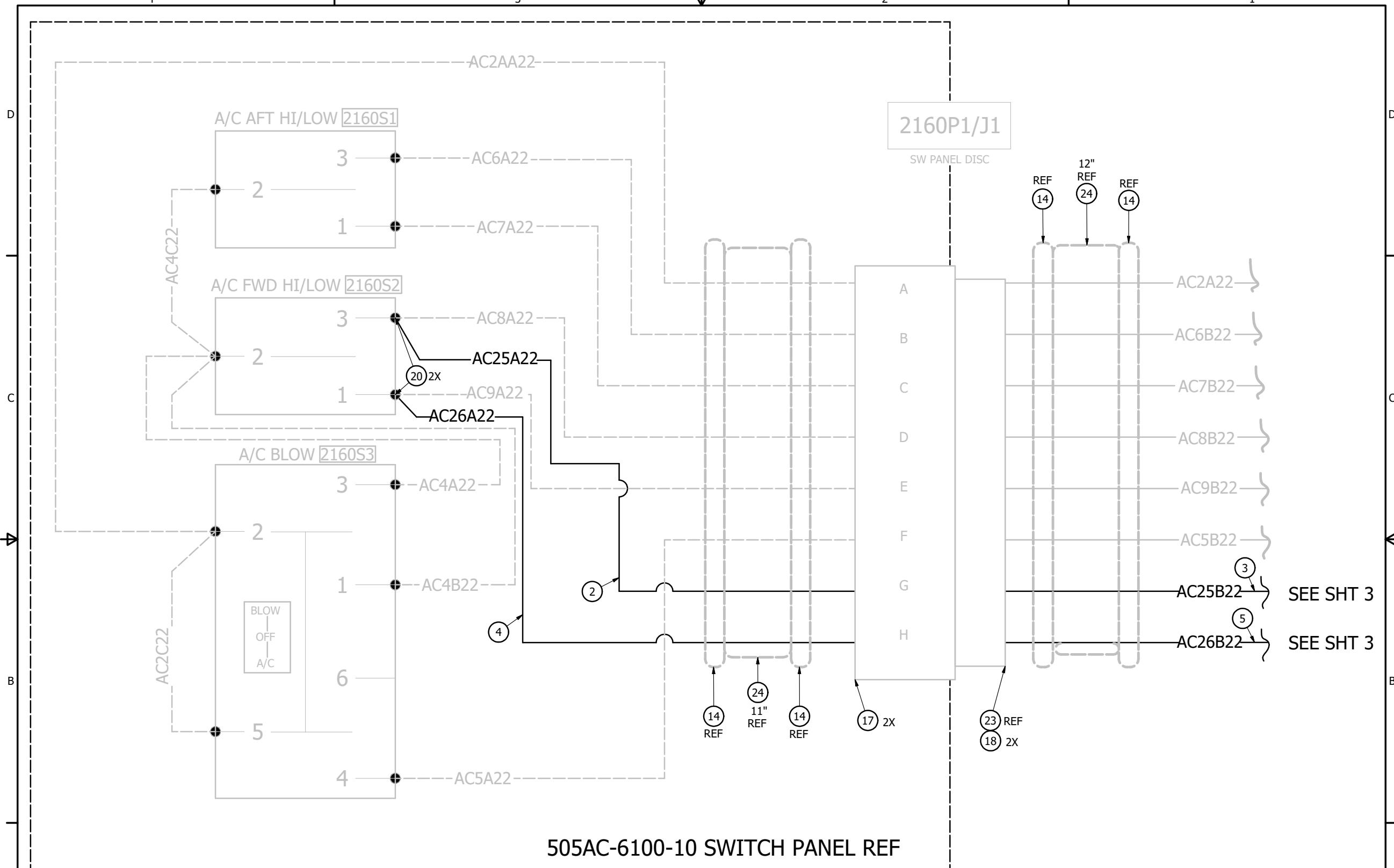
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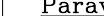
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SCHEMATIC 1

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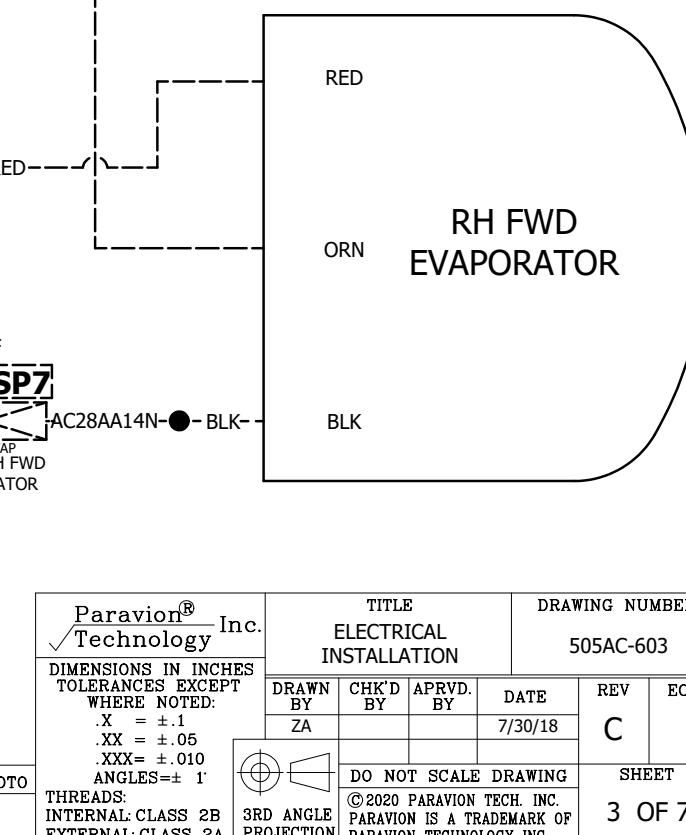
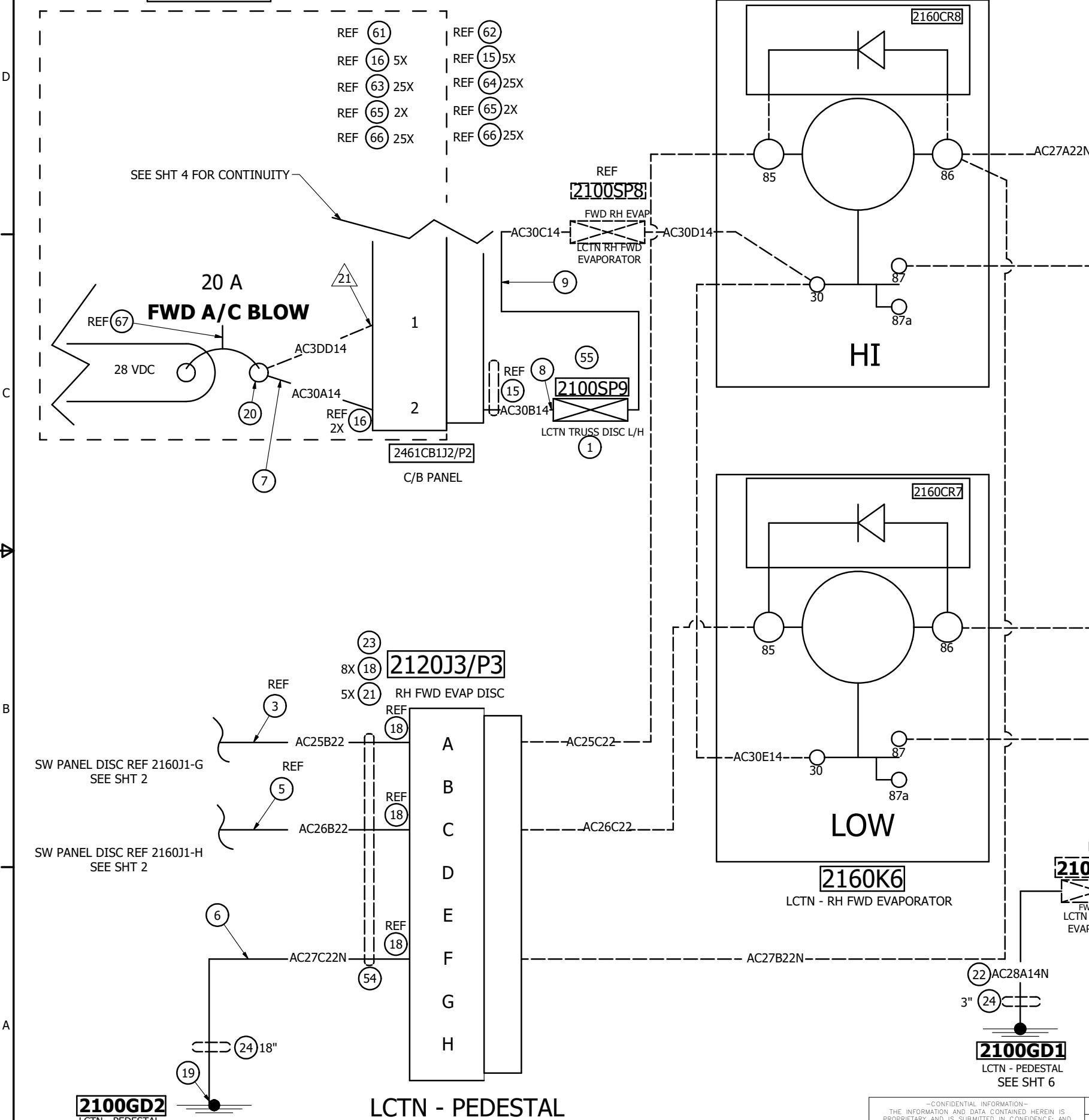
Page 10

 Paravion® Technology	TITLE			DRAWING NUMBER		
	ELECTRICAL INSTALLATION			505AC-603		
DIMENSIONS IN INCHES TOLERANCES EXCEPT WHERE NOTED: .X = ± .1 .XX = ± .05 .XXX = ± .010 ANGLES = ± 1°	DRAWN BY	CHK'D BY	APRVD. BY	DATE	REV	ECO
	ZA			7/30/18	C	
PROTO	 DO NOT SCALE DRAWING © 2020 PARAVION TECH. INC. PARAVION IS A TRADEMARK OF PARAVION TECHNOLOGY INC.					SHEET
						2 OF 7

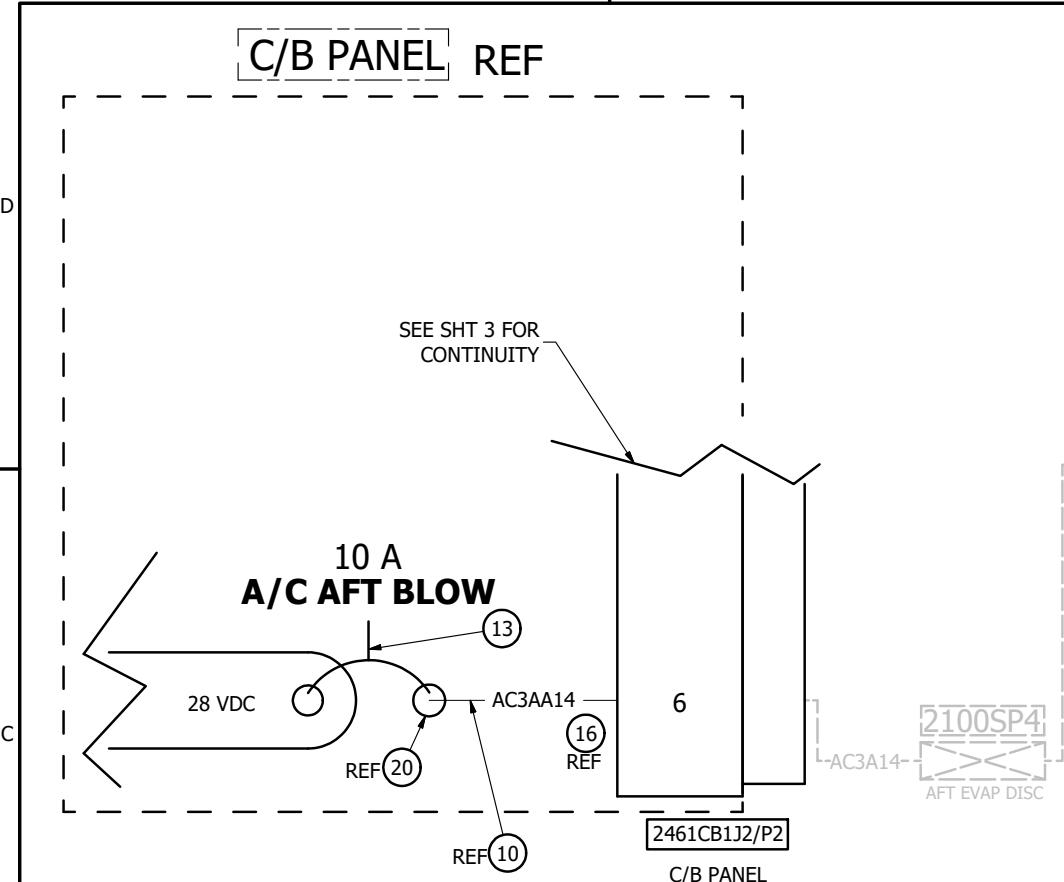
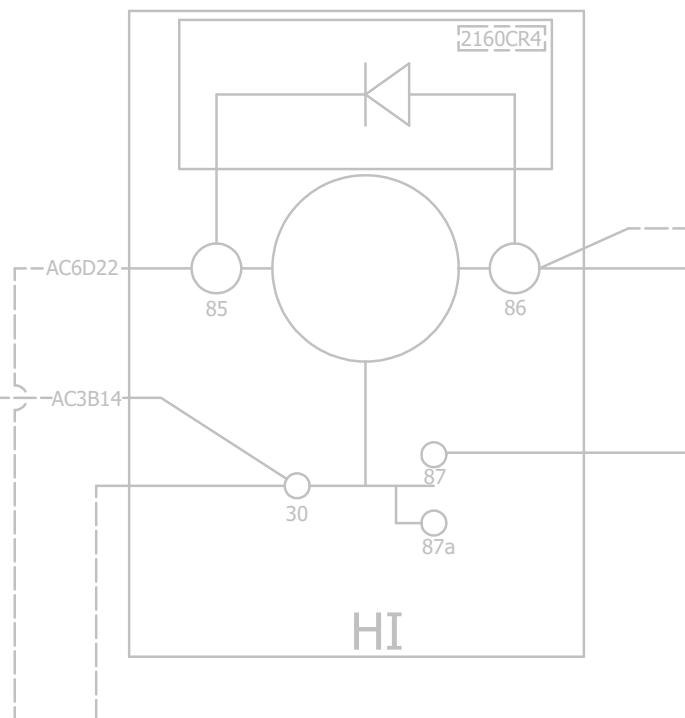
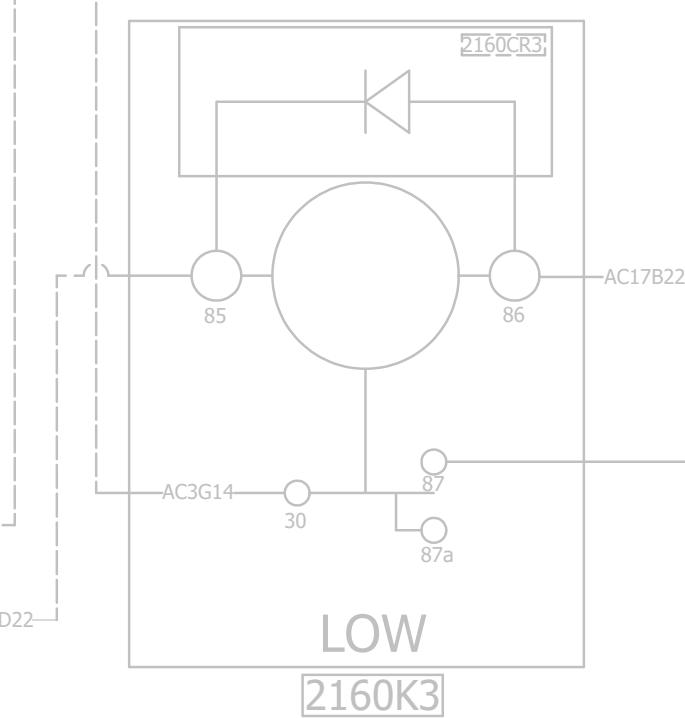
C/B PANEL REF

2160K7 LCTN - RH FWD

SCHEMATIC 2



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C/B PANEL REF**2160K4** LCTN - AFT EVAPORATOR**2100GD4**
LCTN - SUPPORT BKT
AFT EVAP

BLK

RED

ORN

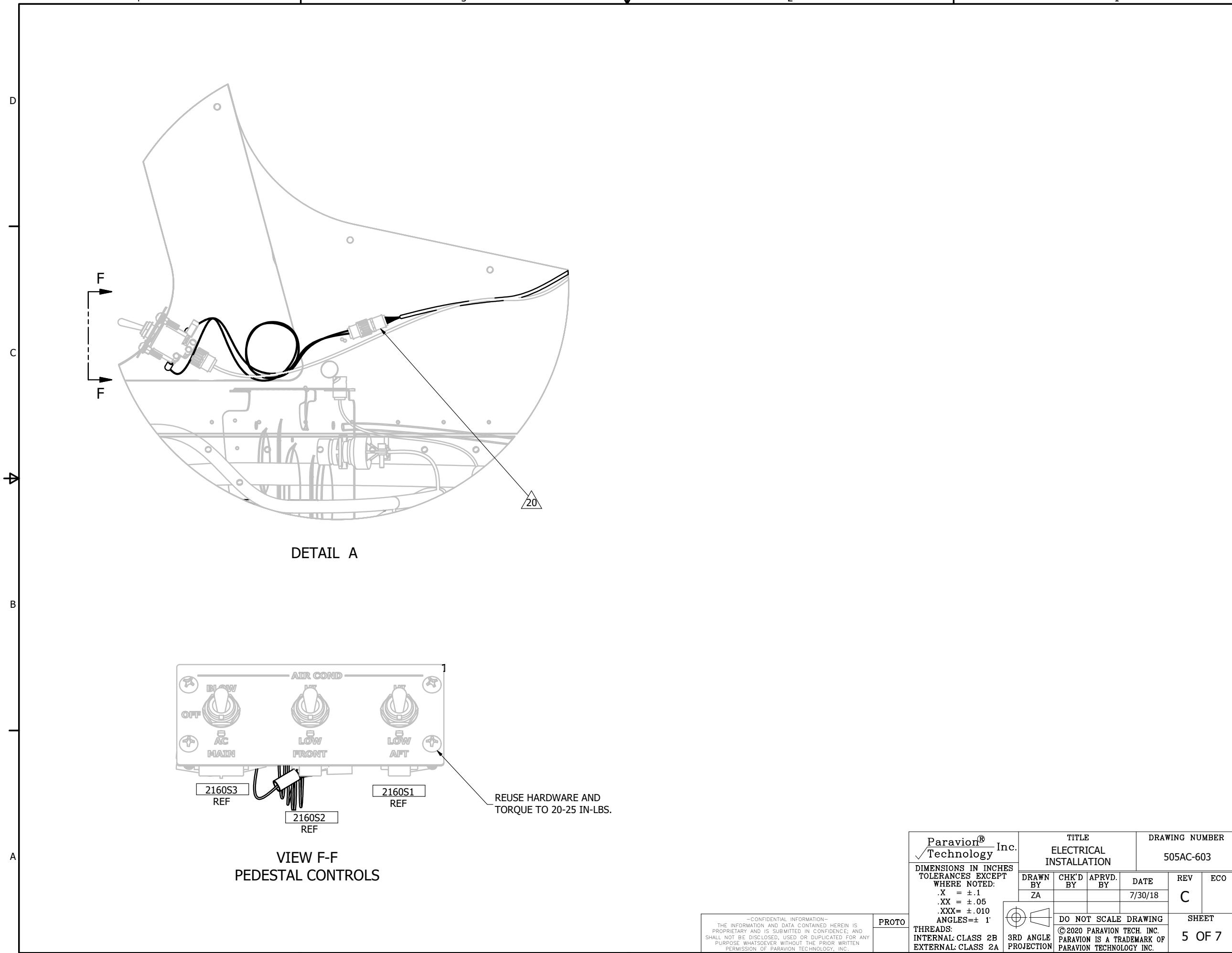
BLK

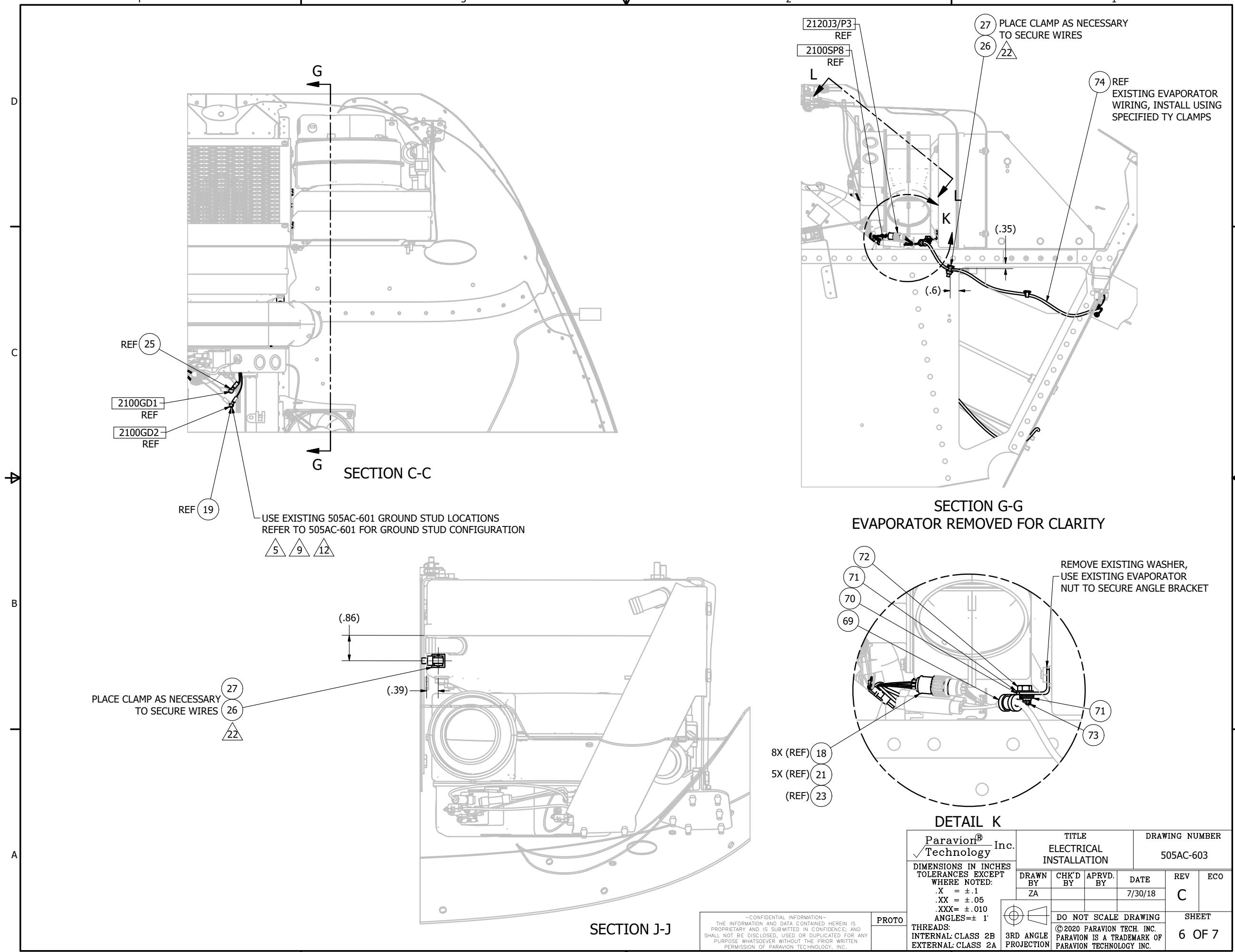
AFT

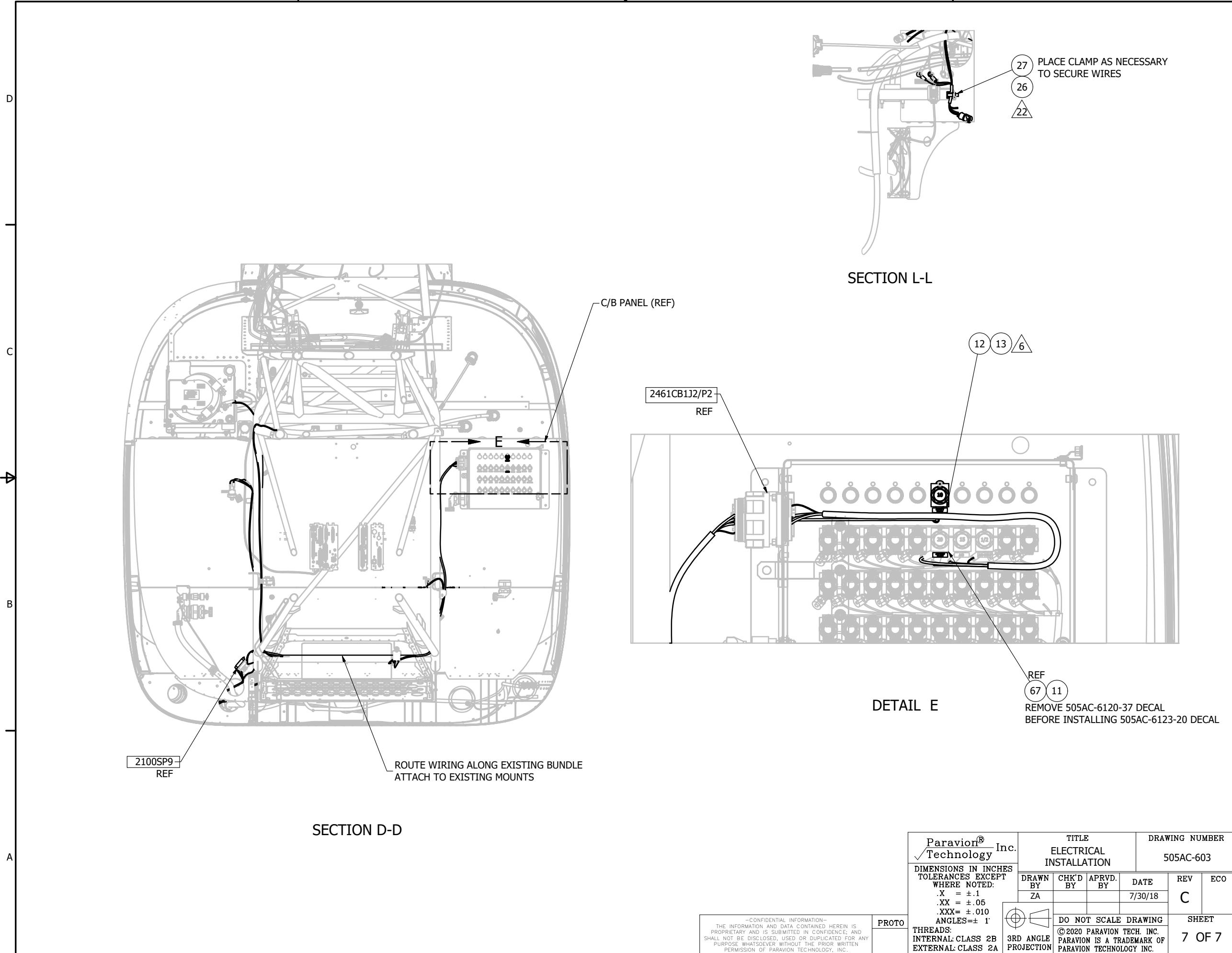
EVAPORATOR

RED

ORN







Bill of Materials

*505AC-603-1, REV. C

ITEM #	P/N	DESCRIPTION	QTY	TYP
0	*505AC-603-1, REV. C	ELECTRICAL INSTALLATION	1	KIT
1	130-065-12-1	TERMINAL JUNCTION (ALT: CTL-12-513)	1	EA
2	505AC-6103-11	WIRE, AC25A22	1	EA
3	505AC-6103-12	WIRE, AC25B22	1	EA
4	505AC-6103-14	WIRE, AC26A22	1	EA
5	505AC-6103-15	WIRE, AC26B22	1	EA
6	505AC-6103-19	WIRE, AC27C22N	1	EA
7	505AC-6103-21	WIRE, AC30A14	1	EA
8	505AC-6103-22	WIRE, AC30B14	1	EA
9	505AC-6103-23	WIRE, AC30C14	1	EA
10	505AC-6100-57	WIRE, AC3AA14 (REF)	1	EA
11	505AC-6123-20	A/C FWD DECAL	1	EA
12	505AC-6123-21	A/C AFT DECAL	1	EA
13	7277-2-10	CIRCUIT BREAKER (ALT:MS26574-10)	1	EA
14	M23053/5-107-0	HEAT SHRINK (REF)	4	IN
15	M39029/4-113	CONTACT PIN (REF)	1	EA
16	M39029/5-118	CONTACT SOCKET (REF)	3	EA
17	M39029/57-354	CONTACT SOCKET	2	EA
18	M39029/58-360	CONTACT PIN	10	EA
19	MS25036-103	TERMINAL LUG	1	EA
20	MS25036-106	TERMINAL LUG	3	EA
21	MS27488-22-1	PLUG	5	EA
22	505AC-6103-20	WIRE, AC28A14N	1	EA
23	SJS830200	RECEPTACLE	1	EA
24	WMEX0.250BK	EXPANDO LOOM 1/4"	3	IN
25	MS25036-108	TERMINAL LUG	1	EA

Bill of Materials

*505AC-603-1, REV. C

ITEM #	P/N	DESCRIPTION	QTY	TYP
26	CB9302V3	TIE MOUNT	3	EA
27	MS3367-1-0	ZIP TIE	3	EA
54	505AC-6123-18	2120J3 IDENT SHRINK TUBING	1	EA
55	505AC-6123-17	2100SP9 IDENT SHRINK TUBING	1	EA
61	M83723/71W2232N	CONNECTOR JACK (REF)	1	EA
62	M83723/76W2232N	CONNECTOR PLUG (REF)	1	EA
63	M39029/5-115	CONTACT SOCKET (REF)	25	EA
64	M39029/4-110	CONTACT PIN (REF)	25	EA
65	MS27488-12	PLUG (REF)	6	EA
66	MS27488-20	PLUG (REF)	50	EA
67	7277-2-20	CIRCUIT BREAKER (REF)(ALT:MS26574-20)	1	EA
68	505AC-6103-1	SWITCH PANEL (REF)	1	EA
69	MS21919WCH3	ADEL CLAMP	1	EA
70	MS9592-048	ANGLE BRACKET	1	EA
71	NAS1149D0332J	WASHER	2	EA
72	NAS1801-3-7	SCREW	1	EA
73	NAS9926-3L	NUT	1	EA
74	505AC-4403-1	EVAPORATOR (REF)	1	EA